

INSTRUCTIONS FOR THE JEFFERSON COUNTY CONTREE SPRAYER

Please follow these directions carefully. Inaccurate application of herbicide can result in damage to your trees! You must follow all instructions on the herbicide label.

TANK MIXING:

- 1) Fill the tank one-third full of water.
- 2) Start the engine (see below).
- 3) Make sure that the boom sprayer handle is in the "OFF" position (down).
- 4) Add the proper amount of premeasured or weighed herbicide.
- 5) Fill the tank with water up to the 50 gallon mark (almost full).
- 6) Allow the tank to agitate thoroughly. If the sprayer is left standing for a prolonged period, run the agitator to re-mix the chemical before spraying. Some herbicide labels recommend using the agitator while spraying.

SPRAYER OPERATION:

- 1) Before starting the engine, check the gas and oil levels. Unleaded gasoline should be used. The fuel tank is white with a black cap. Make sure that the engine oil is full when you start. **The engine will not start when the engine oil is low!** If engine oil is needed, add SAE 30 weight high quality detergent oil (SE, SF or SG). The oil check (dip stick) has a gray knob and is located on the back of the engine (towards the water tank). A more accessible oil fill hole is located on the front of the engine (black knob). A funnel will be useful when adding oil.
- 2) Close the choke (gray handle) for cold starting and move the on / off switch (red knob on the back of the engine) to the "ON" position. Turn the fuel valve lever (black handle) to the "on" position. Start the engine by rapidly pulling the rewind starter cord. When the engine starts, open the choke and adjust the throttle (metal handle).
- 3) Adjust the spray pressure so that the gauge reads around 30 PSI **when the boom sprayer handle is "on"** (pulled up or pointing forward). Turn the gold "T" shaped handle to the right of the pressure gauge to adjust the spray pressure. When the pressure is at 30 PSI, use the screw to lock the pressure valve handle in place.
- 4) Make sure that the boom sprayer handle is in the proper positions to spray either through the right ("R") or left ("L") end of the boom. The handgun is pressurized whenever the pump is running.
- 5) Shut off the sprayer before turning off the engine. Turn off the engine using the on / off switch, not the choke.

SPRAYING:

- 1) Always spray in fairly calm wind conditions. A 0 to 4 MPH wind (calm to light breeze) is best.
- 2) Spraying before or during a light rain is acceptable, but it is best not to spray during a heavy rain.
- 3) The sprayer is designed to be pulled behind a four-wheeler (ATV), a tractor or pickup truck. You can adjust the boom sprayer handle up and down and forward and backward to accommodate your vehicle. Try to keep the sprayer as level as possible. The boom sprayer is set up to spray using only two nozzles on one end of the boom. This will allow you to drive between the tree rows with the row of planted trees centered between the two nozzles. The nozzles are set up to spray a five-foot wide band over the tree rows. It will probably waste herbicide to try to spray more than one row at a time (spacing will be off).
- 4) Your ground speed while spraying must be close to 4 MPH. To determine proper speed, measure a 100 yard (300 feet) test course. It should take you about 51 seconds to travel 100 yards at 4 MPH.
- 5) Be sure to check the pressure gauge periodically while you are spraying. The pressure should read around 30 PSI.
- 6) Apply the five foot wide band of spray directly over each tree row. This will not harm the trees as long as they are dormant (that is, the buds have not begun to open).
- 7) You will be billed by the Land Conservation Department after you are finished with the sprayer for rental of the sprayer.